

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Atty. Docket

ROLE VAN WOUDENBERG

NL010003

Filed: CONCURRENTLY

Title: RECORDING ON A MULTILAYER RECORD CARRIER USING FEED FORWARD
POWER CONTROL

Commissioner for Patents, Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Prior to calculation of the filing fee and examination, please
amend the above-identified application as follows:

IN THE CLAIMS

Please amend the Claims to be in the form as follows. A
marked up copy of the claims is included in an appendix following
this amendment for the Examiners convenience.

3. A method as claimed in claim 1, wherein said difference
in the transmission property is obtained by determining a portion
of said at least one recording layer (6) which contains recorded
data.

4. A method as claimed in claim 1, in which said corrected
value is determined by measuring the reflection level difference in
said other information layer (8) when said recording is effected

through a recorded area or through a non-recorded area of said at least one information layer (6).

5. A method as claimed in claim 1, also comprising the step of using a power correction procedure provided in a recording apparatus for correcting said recording power according to said corrected value.

7. A method as claimed in claim 1, also comprising the steps of:

- i) determining a first angular offset between header areas on said at least one (6) information layer and header areas on said other information layer (8) by measuring differences in the reflection level in said other information layer (8) caused by said header areas in said at least one information layer (6) at a predetermined first measuring point;
- j) deriving positions of header areas from said first angular offset determined; and
- k) using said corrected value at said derived header positions.

9. A method as claimed in claim 7, in which said corrected value is determined on the basis of said measured reflection level differences.

10. A method as claimed in claim 1, in which said corrected value is determined by performing a trial recording during which test patterns are recorded on the record carrier.

14. A method as claimed in claim 12, wherein said transmission map is corrected on the basis of a determined displacement between said at least two information layers (6, 8).

15. A method as claimed in claim 13, wherein said transmission map is derived from a table of contents comprising information about the position of information recorded on said at least one information layer (6).

16. A method as claimed in claim 14, comprising the step of pre-scanning the record carrier, said transmission map being derived from the pre-scanning operation.

20. An apparatus as claimed in claim 18, wherein said control of the recording unit to perform said recording with a corrected value of the recording power is carried out by a power calibration function of said recording apparatus.

21. An apparatus as claimed in claim 19, wherein said determining means is arranged to obtain a transmission map indicating recorded portions of said at least one information layer (6) on the basis of a pre-scanning operation.

22. An apparatus as claimed in claim 20, wherein said determining means is arranged to obtain a transmission map indicating recorded portions of said at least one information layer (6) on the basis of a table of contents comprising information about the position of information recorded on said at least one information layer (6).

23. An apparatus as claimed in claim 21, wherein said recording apparatus is an optical disk recording device.

REMARKS

The foregoing Preliminary Amendment to the claims was made solely to avoid filing the claims in the multiple dependant form so as to avoid the additional filing fee.

The claims were not amended in order to address issues of patentability and Applicant respectfully reserves all rights he may have under the Doctrine of Equivalents. Applicant furthermore reserves his right to reintroduce subject matter deleted herein at a later time during the prosecution of this application or continuing applications.

Respectfully submitted,

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APPENDIX A

3. A method as claimed in claim 1 ~~or 2~~, wherein said difference in the transmission property is obtained by determining a portion of said at least one recording layer (6) which contains recorded data.

4. A method as claimed in ~~any one of the preceding claims~~ claim 1, in which said corrected value is determined by measuring the reflection level difference in said other information layer (8) when said recording is effected through a recorded area or through a non-recorded area of said at least one information layer (6).

5. A method as claimed in ~~any one of the preceding claims~~ claim 1, also comprising the step of using a power correction procedure provided in a recording apparatus for correcting said recording power according to said corrected value.

7. A method as claimed in claim 1 ~~or 2~~, also comprising the steps of:

i) determining a first angular offset between header areas on said at least one (6) information layer and header areas on said other information layer (8) by measuring differences in the reflection level in said other information layer (8) caused by said header areas in said at least one information layer (6) at a predetermined first measuring point;

- j) deriving positions of header areas from said first angular offset determined; and
- k) using said corrected value at said derived header positions.

9. A method as claimed in claim 7 ~~or 8~~, in which said corrected value is determined on the basis of said measured reflection level differences.

10. A method as claimed in claims 1, 2, ~~7 or 8~~, in which said corrected value is determined by performing a trial recording during which test patterns are recorded on the record carrier.

14. A method as claimed in claim 12 ~~or 13~~, wherein said transmission map is corrected on the basis of a determined displacement between said at least two information layers (6, 8).

15. A method as claimed in ~~any one of claims 12 to 14~~ claim 13, wherein said transmission map is derived from a table of contents comprising information about the position of information recorded on said at least one information layer (6).

16. A method as claimed in ~~any one of claims 12 to 14~~ claim 14, comprising the step of pre-scanning the record carrier, said transmission map being derived from the pre-scanning operation.

20. An apparatus as claimed in ~~any one of claims 18 to 19~~
claim 18, wherein said control of the recording unit to perform
said recording with a corrected value of the recording power is
carried out by a power calibration function of said recording
apparatus.

21. An apparatus as claimed in ~~any one of claims 18 to 20~~
claim 19, wherein said determining means is arranged to obtain a
transmission map indicating recorded portions of said at least one
information layer (6) on the basis of a pre-scanning operation.

22. An apparatus as claimed in ~~any one of claims 18 to 20~~
claim 20, wherein said determining means is arranged to obtain a
transmission map indicating recorded portions of said at least one
information layer (6) on the basis of a table of contents
comprising information about the position of information recorded
on said at least one information layer (6).

23. An apparatus as claimed in ~~any one of claims 18 to 22~~
claim 21, wherein said recording apparatus is an optical disk
recording device.